

an operating procedure of a scanning system without scanning twice feature and doesn't need preset the attribute of original before scanning to get image automatically are disclosed. The present invention is described in view of the operating procedure of the scanning system in the embodiment. The operating procedure comprises blocks 41, 42, 43, 44, and 45 depicted in Fig. 4, block 41 and block 45 can be in place of each other, but block 41-44 are necessary.

As shown in Fig. 41, scan an original at least one time to get at least an image that can display all content of this original.

Due to originals probably are reflective original, transparent original, or mix of both, and didn't receive any information about attribute of original from users input. Thus the embodiment is using a reflective scanning mode and a transparent scanning mode to scan original. As for which mode performs first is not point in the embodiment.

Additionally, according to selected mode of scanning and variation relation of received image, the embodiment has many varieties described as following:

First, in accordance with the present invention can scan original with reflective scanning mode, and then analyzed receiving data to get an image of reflective original. If the image of reflective original can't display all content of original, then scan original again with transparent scanning mode. Relatively if the reflective original image can

display all content of original then won't using transparent scanning mode to scan again, but display reflective original image directly.

Of course, in accordance with the present invention also can  
5 scan original with transparent scanning mode, and then analyzed receiving data to get an image of transparent original. If the image of transparent original can't display all content of original, then scan original again with reflective scanning mode. Relatively if the transparent original image can display all content of original then  
10 won't using reflective scanning mode to scan again, but display transparent original image directly.

Additionally, after scanning original, still can performed the image process on the image, the image process can be any technology  
15 to increase the accuracy and the clarity of the image, such as Bit Enhancement Process disclosed in US patent 5818973.

Additionally, the image process can be either performed by a scanner or by a computer. The image process can be modified, replaced, and upgraded by external technologies when a computer is  
20 utilized. In comparison with the prior art that the image process is performed by a scanner, wherein the image process is fixed when the scanner is once built, the present invention utilizes a computer that is by replacing the software the image process is upgraded. Thus, the  
25 present invention can promote the flexibility in utilizing the scanner and extend the performance of the scanner.

As depicted in display block 42, display an image that gets

after scanning, herein the image is usually displayed on a screen. The selection or treatment of the image is also handled on the screen. Thus, the performance of what you see what you get feature provided by the present invention is diminished if the resolution of the screen is too  
5 low.

Herein, preview window usually displayed reflective original image and transparent original image separately when those images included at least one reflective original image and transparent original image. Certainly, preview window can displayed the image that  
10 combined both reflective original image and transparent original image, and if any portion of image can't display by transparent image then will instead by reflective image on preview window, on the other hand, any portion of image can't display by reflective image then will instead by transparent image on preview window.

Referring to receiving block 43, a portion of the image selected by the user is received. It is noted that after the selection of image, a further adjustment of the selected image is achievable.  
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The selected image is output as depicted in block 44. Output the image which through selection and adjustment directly, and didn't perform any scanning again.  
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Of course, as shown in block 45, in accordance with the present invention can received a parameter that inputted by user, and then scan original base on these parameter to get an image. These parameters at least include the scanning resolution, but won't be any information about originals whether reflective original or transparent  
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